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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 09/13/2004
Fleshner & Kim, LLP
14500 Avion Parkway
Suite 125
Chantilly, VA 20151

EXAMINER

LEVITAN, DMITRY

ART UNIT

PAPER NUMBER

2662

DATE MAILED: 09/13/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/718,372	11/24/2000	Sung Lark Kwon	K-240	3058

TITLE OF INVENTION: METHOD OF TRANSMITTING EMERGENCY STOP CONTROL INFORMATION ON COMMON PACKET CHANNEL IN MOBILE COMMUNICATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	12/13/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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7590

09/13/2004

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14500 Avion Parkway
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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

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nonprovisional	NO	\$1330	\$0	\$1330	12/13/2004

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEVITAN, DMITRY	2662	370-278000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1	_____
2	_____
3	_____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s):

- ☐ A check in the amount of the fee(s) is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 963 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 963 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because some fees will increase effective October 1, 2004. See Revision of Patent Fees for Fiscal Year 2005; Final Rule, 69 Fed. Reg. 52604, 52606 (May 10, 2004).

The current fee schedule is accessible from WEB site (<http://www.uspto.gov/main/howtofees.htm>).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), the issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedure (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

- (a) Issue fee for issuing each original or reissue patent, except a design or plant patent:
- By a small entity (Sec. 1.27(a))..... \$685.00
 - By other than a small entity..... \$1,370.00
- (b) Issue fee for issuing a design patent:
- By a small entity (Sec. 1.27(a))..... \$245.00
 - By other than a small entity..... \$490.00
- (c) Issue fee for issuing a plant patent:
- By a small entity (Sec. 1.27(a))..... \$330.00
 - By other than a small entity..... \$660.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Notice of Allowability

Application No.

09/718,372

Examiner

Dmitry Levitan

Applicant(s)

KWON ET AL.

Art Unit

2662

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.
2. ☒ The allowed claim(s) is/are 17, 22-33, 35-43, renumbered as 1-3, 9-20, 4-8, 21, 22.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 8
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

Art Unit: 2662

Preliminary amendment, filed on 08/16/03, has been entered. Claims 17, 22-43 remain pending.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel Y. J. Kim on 09/07/04.

In the claims:

Claim 34 has been cancelled. Claims 17, 22-33 and 35-43 have been changed to the claims 17, 22-33 and 35-43 of the Attachment A to clarify the limitations of the claims, amend claim 33 that was reading on 3GPP standards and amend claims 30-32 previously directed to a non statutory matter.

In the drawings:

Labels "Related Art" in Fig. 1 and 2 have been changed to --Prior Art--.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance:

The present invention is directed to a method of transmitting stop control on CPCH channel in a mobile communication system.

The prior art of record does not teach or fairly suggest at least the following:

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Sending a predetermined bit pattern/command to the user through a downlink DPCH channel, detecting the pattern by the user and stopping the packet transmission through CPCH upon the detection, as specified in independent claims 17, 24, 27, 30, 33, 36 and 42.

The closest prior art, Kanterakis (US 6,169,759), fails to anticipate or render the above limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should be preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Conclusion

The claims being allowed, **Prosecution On The Merits Is Closed** in this application.

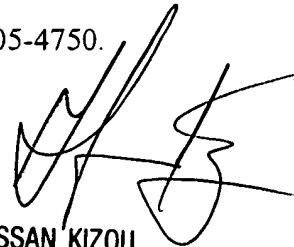
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dmitry Levitan whose telephone number is 703-305-4384. The examiner can normally be reached on 8:30 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on 703-305-4744. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4750.



Dmitry Levitan
Patent Examiner.
09/02/04.



HASSAN KIZOU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

Attachment A

Listing of Claims:

1-16. Cancelled.

17. (Amended) A method of ~~transmitting~~ performing an emergency stop control information for ~~interrupting~~ of a packet transmission on a common packet channel (CPCH) in a communication system, the method comprising:

transmitting a corresponding packet through an uplink (UL) CPCH allocated ~~to~~ by a user equipment (UE);

~~inserting~~ sending a predetermined bit pattern to the user equipment (UE) through a downlink (DL) dedicated physical channel (DPCH), ~~and transmitting the same to the user equipment (UE);~~

~~comparing~~ detecting the transmitted ~~predetermined~~ bit pattern for ~~correspondence to~~ of an emergency stop command ~~interruption of the packet transmission by the UE; and~~

~~interrupting~~ stopping the packet transmission through the CPCH by the UE upon ~~confirmation of the comparison~~ detection.

18-21. Cancelled.

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22. (Previously Presented) The method of claim 17, wherein the DL DPCH includes a DL dedicated physical data channel (DPDCH) and a DL dedicated physical control channel (DPCCH), and the predetermined bit pattern is inserted in at least one of DPDCH ~~and or~~ DPCCH.

23. (Previously Presented) The method of claim 22, wherein the predetermined pattern is inserted in at least one of:

- (a) DPDCH;
- (b) a TPC field of the DPCCH; ~~and or~~
- (c) pilot field of the DPCCH.

24. (Previously Presented) A method of controlling a network resource during packet transmission by a user equipment (UE) to a network, the method comprising:

transmitting a predetermined bit pattern to the ~~subscriber unit~~ UE after inserting said predetermined bit pattern into a frame of a downlink (DL) dedicated physical channel (DPCH) by the network;

~~recognizing~~ detecting the predetermined bit pattern by the UE; and

~~at least one of controlling packet transmission through an allocated network resource and terminating~~ stopping packet transmission through the allocated network resource by the ~~transmitting side~~ UE.

Serial No. 09/718,372

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25. (Previously Presented) The method of claim 24, wherein the predetermined bit pattern is inserted into an unused field in the frame of a downlink dedicated physical data channel (DPDCH) of the DPCH during the packet transmission on an uplink common packet channel (CPCH).

26. (Previously Presented) The method of claim 24, wherein the predetermined bit pattern is indicative of an emergency stop of the packet transmission ~~by the transmitting side~~ due to an abnormal condition in ~~a~~ the network.

27. (Previously Presented) An emergency stop procedure during transmission of data through CPCH by a UE to a UTRAN comprising:

~~generating-providing~~ a CPHY-CPCH-Estop-REQ primitive from a node B radio resource control layer (RRC) to a Node B physical layer ~~to generate a CPCH-Estop-Command;~~

~~transmitting-the~~ sending a CPCH-Estop-Command from the node B physical layer to a UE physical layer;

~~transmitting-~~ sending a CPHY-CPCH-Estop-IND primitive from the UE physical layer to the UE-RRC ~~based on~~ upon reception of the CPCH-Estop-Command;

~~transmitting-~~ providing a CPHY-CPCH-Estop-Resp primitive from the UE-RRC to the UE physical layer in response ~~reply~~ to the CPHY-CPCH-Estop-IND primitive; and

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executing CPCH emergency stop in response to the ~~CPHY-CPCH-Estop-Resp-primitive~~ by the UE physical layer.

28. (Previously Presented) The emergency stop procedure of claim 27, further comprising sending a PHY-Status-Ind primitive from the UE physical layer to a UE-MAC layer in response to the indicating a completion of the CPCH emergency stop.

29. (Previously Presented) The emergency stop procedure of claim 27, further comprising sending a CPHY-CPCH-Estop-CNF primitive from the Node B physical layer to the Node B-RRC when Node B physical layer detects CPCH link loss.

30. A method of sending a frame for a dedicated physical channel, comprising: wherein the improvement comprises:

sending the frame, the frame having a plurality of slots, each slot having a first prescribed number of bits for dedicated physical control channel (DPCCH) and a second prescribed number of bits for dedicated physical data channel (DPDCH), wherein

at least one of the DPCCH or DPDCH includes a prescribed pattern for stopping a common packet channel (CPCH) transmission;

detecting the prescribed pattern; and

stopping the CPCH transmission.

31. The frame-method of claim 30, wherein the prescribed pattern indicates an emergency stop of a packet transmission through the CPCH.

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~~11-01-04~~

32. The frame method of claim 30, wherein the prescribed pattern is inserted into one of:

the DPDCH for an emergency stop of a packet transmission through the CPCH;

a TPC field of the DPCCH for lowering a power of data transmission through the CPCH;

DPDCH and the TPC;

a pilot field of the DPCCH for the emergency stop of the packet transmission through the CPCH;

the TPC field of the DPCCH and the DPDCH, the DPDCH having a bit pattern perpendicular to the pilot field of the DPCCH; and

the TPC, the pilot field of the DPCCH and the DPDCH.

33. (Previously Presented) A base station, comprising:
means for receiving packet transmission through a common packet channel CPCH;

means for detecting an abnormal condition in a network; and

means for transmitting a frame having a command to release or control stop the CPCH transmission in response to when the abnormal condition is detected, wherein

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the frame includes a plurality of slots, each slot having a first prescribed number of bits for a dedicated physical control channel (DPCCH) and a second prescribed number of bits for a dedicated physical data channel (DPDCH), wherein a prescribed pattern corresponding to the command for stopping the CPCH transmission is provided within the frame of at least one of the DPCCH or DPDCH.

34. Cancelled

35. (Previously Presented) The base station of claim 33, wherein ~~a release of the CPCH indicates the command corresponds to an emergency stop of data transmission through the CPCH.~~

36. (Previously Presented) A user equipment (UE) comprising:
means for transmitting data through a common packet channel (CPCH);
means for receiving a frame having a command indicative of control of the data transmission or release of to stop the CPCH transmission, wherein the frame comprises a plurality of slots, each slot having a first prescribed number of bits for a dedicated physical control channel (DPCCH) and a second prescribed number of bits for a dedicated physical DPDCH, wherein a prescribed pattern corresponding to the command for stopping the CPCH transmission is provided within a frame of at least one of the DPCCH and or DPDCH includes a prescribed pattern for indicating at least one of

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~~controlling of data transmission and releasing the CPCH by the UE.~~

37. (New) The method of claim 17, wherein the predetermined bit pattern represents emergency stop control information is provided within on a DPCCH frame of the DPCH.

38. (New) The method of claim 17, wherein the DPCH includes DPCCH, and the DPCCH includes a control command field for emergency stop the predetermined bit pattern.

39. (New) The method of claim ~~17~~ 38, wherein the predetermined bit pattern is [1111].

40. (New) The method of claim 39, wherein the predetermined bit pattern is provided in a pilot field of a DPCCH of the DPCH.

41. (New) The method of claim 39, wherein a power control bit notifying a power lowering command is transmitted in a TPC field of a DL DPCCH with the predetermined bit pattern.

42. (New) A method for emergency stop of a packet transmission on a common packet channel (CPCH) in a communication system, the method comprising:

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transmitting a corresponding packet through an uplink (UL) CPCH allocated to by a user equipment (UE);

~~inserting~~ sending a predetermined bit pattern of [1111] to the user equipment (UE) through a downlink (DL) dedicated physical control channel (DPCCH); ~~and transmitting the same to the user equipment (UE);~~

detecting the ~~transmitted~~ predetermined bit pattern of [1111] for ~~correspondence to~~ of an emergency stop command ~~interruption of the packet transmission~~ by the UE; and

~~interrupting~~ stopping the packet transmission through the CPCH by the UE upon detection.

43. (New) The method of claim 42, wherein a power control bit notifying a power lowering command is transmitted in a TPC field of a DL DPCCH with the predetermined bit pattern of [1111].